



6AL5

TWIN DIODE

MINIATURE TYPE

6AL5

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage. 6.3 ac or dc volts

Current. 0.3 amp

Direct Interelectrode Capacitances (Approx.):^oPlate No. 1 to Cathode No. 1, Heater,
and Internal Shield* 2.5 μf Plate No. 2 to Cathode No. 2, Heater,
and Internal Shield* 2.5 μf Cathode No. 1 to Plate No. 1, Heater,
and Internal Shield* 3.4 μf Cathode No. 2 to Plate No. 2, Heater,
and Internal Shield* 3.4 μf Plate No. 1 to Plate No. 2^o 0.068 max. μf

Cold Resonant Frequency (Each Unit, Approx.) 700 Mc

^o With no external shield.

* With plate and cathode of unit No.2 grounded.

• With plate and cathode of unit No.1 grounded.

□ With all other electrodes and internal shield grounded.

Mechanical:

Mounting Position. Any

Maximum Overall Length 1-3/4"

Maximum Seated Length. 1-1/2"

Length, Base Seat to Bulb Top (Excluding tip) . 1-1/8" \pm 3/32"

Maximum Diameter 3/4"

Bulb T-5-1/2

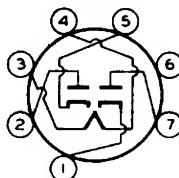
Base Small-Button Miniature 7-Pin (JETEC No.E7-1)

Basing Designation for BOTTOM VIEW 6BT

Pin 1 - Cathode of
Diode No.1Pin 2 - Plate of
Diode No.2

Pin 3 - Heater

Pin 4 - Heater

Pin 5 - Cathode of
Diode No.2Pin 6 - Internal
ShieldPin 7 - Plate of
Diode No.1

RECTIFIER

Maximum Ratings, Design-Center Values:

PEAK INVERSE PLATE VOLTAGE 330 max. volts

PEAK PLATE CURRENT PER PLATE 54 max. ma

DC OUTPUT CURRENT PER PLATE. 9 max. ma

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. . 330 max. volts

Heater positive with respect to cathode. . 330 max. volts

<- Indicates a change.

MAY 3, 1954

TUBE DIVISION

DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

6AL5



6AL5

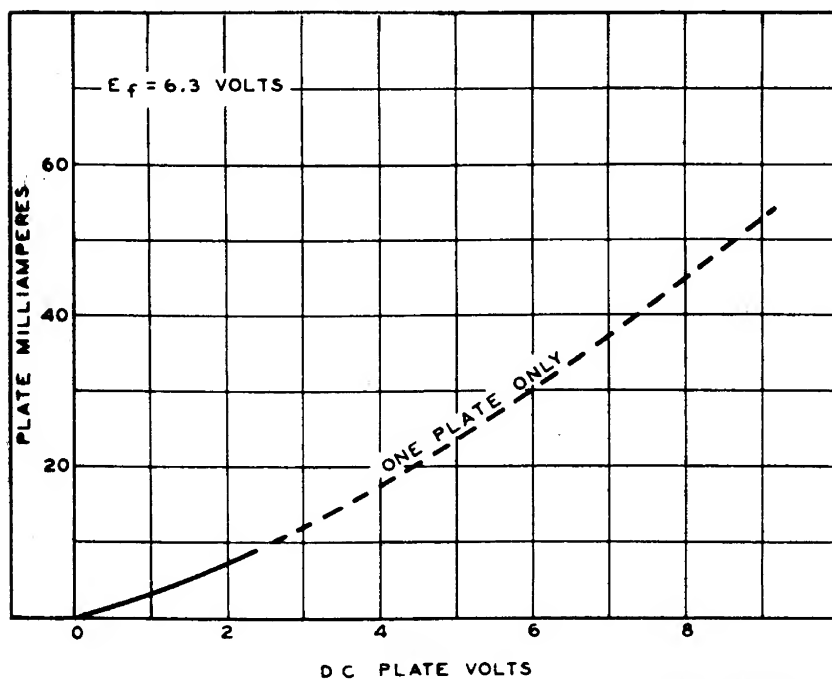
TWIN DIODE

Typical Operation as Half-Wave Rectifier:

The Two Units May Be Used Separately or in Parallel

| | | |
|--|-----|-------|
| AC Plate Voltage per Plate (RMS) | 117 | volts |
| Min. Total Effect. Plate-Supply | | |
| Impedance per Plate | 300 | ohms |
| DC Output Current per Plate | 9 | ma |

AVERAGE PLATE CHARACTERISTIC



92CM-6560T

MAY 3, 1954

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

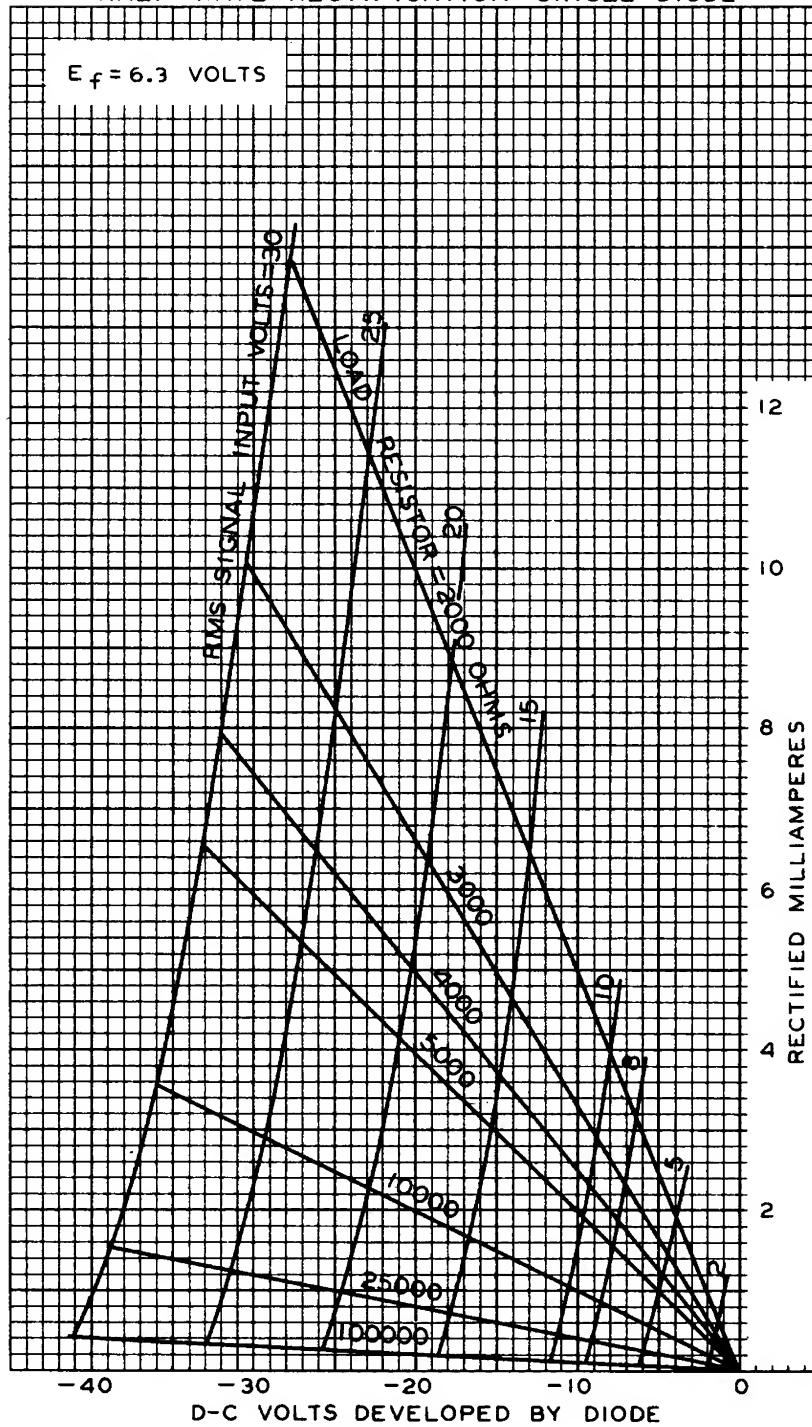
DATA



6AL5

AVERAGE CHARACTERISTICS
HALF-WAVE RECTIFICATION-SINGLE DIODE

6AL5



JUNE 7, 1944

RCA VICTOR DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6561